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Information Section

ACOUSTICS:

Publications by Members of the Staff of the National Bureau of Standards.

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GENERAL INFORMATION

Some of the publications in this list have appeared in the regular series of publications of the Bureau, and others in various scientific and technical journals. Unless specifically stated, papers are not obtainable from the National Bureau of Standards.

Where the price is stated, the publication can be purchased from the Superintendent of Documents, Government Printing Office, Washington, D. C. The prices quoted are for delivery to addresses in the United States and its territories and possessions and in certain foreign countries which extend the franking privilege. In the case of all other countries, one-third the cost of the publication should be added to cover postage. Remittances should be made either by coupons (obtainable from the Superintendent of Documents in sets of 20 for $1.00 and good until used), or by check or money order payable to the "Superintendent of Documents, Government Printing Office" and sent to him with order.

Publications marked "OP" are out of print, but, in general, may be consulted at technical libraries.

For papers in other scientific or technical journals, the name of the journal or of the organization publishing the article is given in abbreviated form, with the volume number (underscored), page, and year of publication, in the order named. The Bureau cannot supply copies of these journals, or reprints of them, and it is unable to furnish information as to their availability or price. They, too, can usually be consulted at technical libraries.

Series letters with serial numbers are used to designate Bureau publications:

S = "Scientific Paper". S1 to S329 are "Reprints" from the "Bulletin of the Bureau of Standards". S330 to S572 were published as "Scientific Papers of the Bureau of Standards". This series was superseded by the "Bureau of Standards Journal of Research" in 1928.

T = "Technologic Paper". T1 to T370. This series was superseded by the "Bureau of Standards Journal of Research" in 1928.

RP = "Research Paper". These are reprints of articles appearing in the "Bureau of Standards Journal of Research" and the "Journal of Research of the National Bureau of Standards", the latter being the title of this periodical since July 1934 (volume 13, number 1).

C = "Circular".

M = "Miscellaneous Publication".

TNB = "Technical News Bulletin".

BMS = "Building Materials and Structures" publication.

LC = "Letter Circular".

Circular C24 and supplements, the complete list of the Bureau's publications (1901-1944), is sold by the Superintendent of Documents for 95 cents. Announcement of new publications is made each month in the Technical News Bulletin which is obtainable by subscription at 50 cents per year.

SOUND ABSORPTION

Title	Series	Price
The absorption of sound at oblique angles of incidence. P. R. Heyl, V. L. Chrisler and W. F. Snyder. BS J. Research 4, 289 (1930) -	RP149	OP
The measurement of sound absorption by oscillograph records. V. L. Chrisler. J. Acous. Soc. Am. 1, 418 (1930)		
Recent advances in sound absorption measurements. V. L. Chrisler. J. Acous. Soc. Am. 2, 123 (1930)		

Title	Series	Price
Measurement of sound absorption. V. L. Chrisler and W. F. Snyder. BS J. Research 5, 957 (1930) -	RP242	OP
An automatic reverberation meter for measurement of sound absorption. W. F. Snyder. BS J. Research 9, 47 (1932) - - - - - - - - - - - -	RP457	OP
Some of the factors which affect measurement of sound absorption. V. L. Chrisler and Catherine E. Miller. BS J. Research 9, 175 (1932) - - - - - - - - - - - - - - - - - -	RP465	OP
New industry - manufacture of sound absorbing material. (August 1932) - - - - - - - - - -	TNB184	OP
Dependence of sound absorption upon area and distribution of absorbent material. V. L. Chrisler. J. Research NBS 13, 169 (1934)	RP700	5¢
Sound absorption coefficients. V. L. Chrisler. J. Acous. Soc. Am. 6, 115 (1934)		
Effect of paint on the sound absorption of acoustic materials. V. L. Chrisler. J. Research NBS 24, 547 (1940) - - - - - -	RP1298	10¢
Sound absorption coefficients of the more common acoustic materials. Free on application to the National Bureau of Standards. (Jan. 1943) Supersedes LC-632	LC-714	
Classification of acoustic materials. Free on application to the National Bureau of Standards. (Feb. 1943) Supersedes LC-633	LC-715	

SOUND TRANSMISSION

Transmission and absorption of sound by some building materials. E. A. Eckhardt and V. L. Chrisler. Sci. Pap. BS 21, 37 (1926)	S526	OP
Transmission of sound through building materials. V. L. Chrisler. Sci. Pap. BS 22, 227 (1927) - - - - - - - - - - - - - - -	S552	OP
Transmission of sound through wall and floor structures. V. L. Chrisler and W. F. Snyder. BS J. Research 2, 541 (1929)	RP48	OP

Title	Series	Price
Measurement of sound transmission. V. L. Chrisler. J. Acous. Soc. Am. 1, 175 (1930)		
Sound transmission of materials. V. L. Chrisler. Am. Arch. 138, 32 (1930)		
Recent sound transmission measurements at the National Bureau of Standards. V. L. Chrisler and W. F. Snyder. J. Research NBS 14, 749 (1935) -	RP800	OP
Methods for determining sound transmission loss in the field. A. London. J. Research NBS 26, 419 (1941) - - - - - - - - - - - - - - - - - -	RP1388	10¢
ARCHITECTURAL ACOUSTICS, MISCELLANEOUS		
Acoustics of rooms. E. A. Eckhardt. J. Franklin Institute. 195, 799 (1923)		
The sound insulating properties of partition walls (chiefly lath and plaster). E. A. Eckhardt and V. L. Chrisler. Am. Arch. 128, 405 (1925)		
Soundproofing of apartment houses. V. L. Chrisler. Tech. Pap. BS 21, 255 (1927)	T337	OP
Sound insulation. V. L. Chrisler. Architecture 57, 87 (Feb. 1928).		
Soundproofing apartment houses. V. L. Chrisler. Arch. Forum 50, 623 (1929), 765 (1929)		
Soundproofing partitions. (December 1931) - - - -	TNB176	
A discussion of some of the principles of acoustical insulation. V. L. Chrisler. (1933)	C403	OP
Acoustical work of the National Bureau of Standards. V. L. Chrisler. J. Acous. Soc. Am. 7, 79 (1935) -		
Architectural acoustics. P. R. Heyl and V. L. Chrisler. (1938) Supersedes C396.	C418	5¢
Sound insulation of wall and floor constructions. V. L. Chrisler. (1939), and supplement (1940) -	BMS17	20¢
	(Supp.)	5¢

ACOUSTIC INSTRUMENTS

Title	Series	Price
The tonodeik, or pitch indicator. L. E. Dodd Sci. Am. 115, 410, 422 (1916)		
A precision high-speed oscillograph camera; the precise measurement of small time intervals. E. A. Eckhardt. J. Franklin Inst. 194, 49 (1922)		
A piezoelectric method for the instantaneous measurement of high pressures. J. C. Karcher. Sci. Pap. BS 18, 257 (1922)	S445	OP
Electron tube tuning fork drive. E. A. Eckhardt, J. C. Karcher, and M. Keiser. J. Opt. Soc. Am. 6, 949 (1922)		
A method for the measurement of sound intensity. J. C. Karcher. Sci. Pap. BS 19, 105 (1923) - - - - - - - - - - - - -	S473	OP
Radio-acoustic method of position finding in hydrographic surveys. F. H. Heck, E. A. Eckhardt and M. Keiser. U. S. Coast and Geodetic Survey, spec. pub. No. 107 (1924)		
Measurement of small time intervals. P. P. Quayle. J. Franklin Inst. 203, 407 (1927)		
Calibration of a tuning fork by comparison with a pendulum. C. Moon. BS J. Research 4, 213 (1930) - - - - - - - - - - - - - - - - - -	RP144	5¢
Measurements with a reverberation meter. V. L. Chrisler and W. F. Snyder. J. Soc. Motion Picture Engineers. 18, 479 (1932)		
Absolute pressure calibration of microphones. R. K. Cook. J. Research NBS 25, 489(1940) Also published in abbreviated form in J. Acous. Soc. Am. 12, 415 (1941)	RP1341	OP
Acoustic performance of 16-millimeter sound motion-picture projectors. W. F. Snyder.	C439	15¢

SOUND PROPAGATION

Title	Series	Price
The influence of terminal apparatus on telephone transmission. Louis Cohen. Bul. BS 5, 231 (1909) - - - - - - - - - - -	S101	OP
Effect of phase of harmonics upon acoustic quality. M. G. Lloyd and P. G. Agnew. Bul. BS 6, 255 (1909) - - - - - - - - - - - Also published in Elec. Review and West. Electn. 55, 487 (Sept. 1909)	S127	OP
Photography of bullets in flight. P. P. Quayle. J. Franklin Inst. 193, 627 (1922)		
Accurate determinations of the speed of sound in sea water. E. A. Eckhardt. Phys. Rev. 24, 452 (1924)		
Single-spark photography and its application in ballistics. P. P. Quayle. Nature 115, 765 (1925)		
Transmission of sound through voice tubes. E. A. Eckhardt, V. L. Chrisler, P. P. Quayle and M. J. Evans; with an appended note on the absorption in rigid pipes. Edgar Buckingham. Tech. Pap. BS 21, 163 (1926) -	T333	15¢

AIRPLANE NOISE INSULATION

Soundproofing of airplane cabins. V. L. Chrisler and W. F. Snyder. BS J. Research 2, 897 (1929)	RP63	OP
Decreasing noise in airplane cabins. Domestic Air News. Serial No. 49 (March 31, 1929)		
Reduction of airplane noise. Aeronautics Bul. No. 25 (October 1930)		
Progress in soundproofing of airplane cabins. Air Commerce Bul. 1, No. 21 (1930)		
Report of test on reduction of airplane noise by use of mufflers. Air Commerce Bul. 4, No. 12 (1932) Reprints available on application to the National Bureau of Standards.		
Principles, practice and progress of noise reduction in airplanes. A. London. Tech. Notes NACA No. 748 (1940)		

MISCELLANEOUS

Title	Series	Price
Survey of hearing aids: Written in part by P. R. Heyl. Volta Review 29, No. 10 p. 1 (1927)		
Ultrasonic measurements of the compressibility of solutions and of solid particles in suspension (ultra-sonic velocity measurements). C. R. Randall. BS J. Research 8, 79 (1932)	RP402	10¢
Acoustical investigations of Joseph Henry as viewed in 1940. W. F. Snyder. J. Acous. Soc. Am. 12, 58 (1940)		